

P8277 WS Specs



CPU	Intel® Socket 1155 for 3rd/2nd Generation Processors
	Supports 22/32nm CPU
Chipset	Intel® Turbo Boost Technology 2.0
	* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.
Memory	** Refer to www.asus.com for Intel CPU support list
	Intel® Z77 Express Chipset
Expansion Slots	4 x DIMM, max. 32GB, DDR3 2600(O.C.)/2400(O.C.)/2200(O.C.)/2133(O.C.)/1866(O.C.)/1600/1333/1066 MHz, non-ECC, un-buffered memory
	Dual channel memory architecture
VGA	Supports Intel® Extreme Memory Profile (XMP)
	* Hyper DIMM support is subject to the physical characteristics of individual CPUs. Please refer to Memory QVL (Qualified Vendors List) for details.
Multi-GPU support	4 x PCI Express 3.0/2.0 x16 slots (single at x16, dual at x16 / x16, triple at x16/ x8/ x8, Quad at x8/ x8/ x8/ x8)
	2 x PCI Express 2.0 x1 slots
Storage	* PCIe 3.0 speed is supported by Intel® 3rd generation Core™ processors.
	Integrated Graphics Processor- Intel® HD Graphics support
LAN	Supports DVI-I Port, max. resolution 1920x1200 at 60Hz
	Supports Intel® InTru™ 3D/Quick Sync Video/Clear Video HD Technology/Insider™
Audio	Supports AMD® 4-Way CrossFireX™ Technology
	Supports NVIDIA® 4-Way SLI™ Technology
USB	Supports LucidLogix Virtu MVP Technology*
	* LucidLogix Virtu MVP supports Windows 7 operating systems.
Storage	Intel® Z77 Express Chipset:
	- 2 x SATA 6Gb/s ports with RAID 0, 1, 5 and 10 support
LAN	- 4 x SATA 3Gb/s ports with RAID 0, 1, 5 and 10 support
	- Supports Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology
Audio	Marvell® 9128 SATA controllers:
	- 2 x SATA 6Gb/s ports with RAID 0, 1 support
USB	ASMedia® SATA 6Gb/s controller**
	- 2 x eSATA 6Gb/s ports with port multiplier support
Storage	* Supports on Intel® Core™ processor family with Windows 7 operating systems.
	** These SATA ports are for data hard drives only. ATAPI devices are not supported.
LAN	2*Intel® 82574L Gigabit LAN controller
	Realtek® ALC898 8-channel high definition audio CODEC
Audio	- Absolute Pitch 192khz/24bit true BD lossless sound
	- BD audio layer content protection
USB	- DTS UltraPC II
	- DTS Connect
Storage	- Supports jack-detection, multi-streaming, front panel jack-retasking
	- Optical S/PDIF out port at back I/O
USB	2 x ASMedia USB 3.0 controllers- supports ASUS USB 3.0 Boost UASP Mode.
	- 2 x USB 3.0/2.0 ports at back panel(blue)
Storage	Intel® Z77 Express Chipset- supports ASUS USB 3.0 Boost UASP Mode.*
	- 2 x USB 3.0/2.0 ports at mid-board for front panel support
USB	- 2 x USB 3.0/2.0 ports at back panel(blue)
	Intel® Z77 Express Chipset
Storage	- 9 x USB 2.0/1.1 ports (5 ports at mid-board, 4 ports at back panel)
	* The USB 3.0 ports only support Windows® 7 or later versions. UASP standard only supports Windows® 8.
SMART DIGI+	SMART DIGI+
	- Smart DIGI+ Key- quickly delivers higher VRM frequency, voltage and current for superior CPU/iGPU/DRAM overclocking performance with one switch.
CPU Power	- Smart CPU Power Level (VRD 12.5 Ready)- provides the best digital power saving conditions.
	CPU Power
DRAM Power	- Industry leading digital 20-phase power design (16-phase for CPU, 4-phase for iGPU)
	- ASUS CPU power utility
ASUS TPU	DRAM Power
	- Industry leading digital 2-phase DRAM power design
ASUS EPU	- ASUS DRAM power utility
	ASUS TPU
EPU Utility	- Auto Tuning, TurboV
	- TPU Switch
EPU Switch	ASUS EPU
	- EPU Utility
ASUS Exclusive Features	- EPU Switch
	ASUS Exclusive Features
ASUS SSD Caching	- ASUS SSD Caching
	- Network iControl featuring instant network bandwidth domination for top network program in use
USB 3.0 Boost	- USB 3.0 Boost featuring the latest USB 3.0 UASP standard
	- USB Charger+ featuring quick-charging function for all smart devices
AI Suite II	- AI Charger+
	- Disk Unlocker featuring 3TB+ HDD support
Anti Surge	- AI Suite II
	- Anti Surge
MemOK!	- MemOK!

	ASUS Quiet Thermal Solution - ASUS Fan Xpert 2 featuring Fan Auto Tuning function for optimized speed control - ASUS Fanless Design: Heat-pipe solution ASUS EZ DIY - ASUS USB BIOS Flashback with USB BIOS Flashback Wizard for EZ BIOS download scheduling - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface - ASUS O.C. Tuner - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 ASUS Q-Design - ASUS Q-code - ASUS Q-Shield - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector - 4 PCIe x 16 slots
Workstation Unique Features	- Quick Gate: 1 vertical USB 2.0 on board - ASUS SAS/SATA series Cards support - ASUS WS Diag. LED - WS 3-color LED
Back Panel I/O Ports	4 x USB 3.0/2.0 ports (blue, 1 supports USB BIOS Flashback) 4 x USB 2.0/1.1 ports 1 x USB BIOS Flashback switch 1 x PS/2 KB/MS port 1 x DVI-I Port 2 x eSATA ports 2 x LAN (RJ45) ports (2 x Intel® LAN) 1 x Optical S/PDIF Out port 8-channel Audio I/O
Internal I/O connectors	1 x USB 3.0/2.0 connector support additional 2 USB ports (19-pin) 2 x USB 2.0/1.1 connectors support additional 4 USB ports 1 x USB 2.0/1.1 type A vertical ports 4 x SATA 6.0Gb/s connectors (2 x gray; 2 x navy blue) 4 x SATA 3.0Gb/s connectors (blue) 1 x CPU Fan connector (4-pin) 1 x CPU Opt Fan connectors (4-pin) 4 x Chassis Fan connectors (4-pin) 1 x Front panel audio connector (AAFP) 1 x S/PDIF Out header 1 x Clear CMOS button 1 x 24-pin EATX Power connector 1 x 8-pin EATX 12V Power connector 1 x 4-pin EZ_PLUG Power connector(s) 1 x System Panel (Q-Connector) 1 x MemOK! Button 1 x EPU switch 1 x TPU switch 1 x Power-on switch 1 x Reset button
BIOS Features	64 Mb Flash ROM, UEFI AMI BIOS, PnP, DM2.0, WM2.0, SM BIOS 2.5, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, F12 PrintScreen, F3 Shortcut Function and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WfM 2.0, DMI 2.0, WOL by PME, PXE
Accessories	4 x Serial ATA 6Gb/s cables 2 x Serial ATA 3Gb/s cables 1 x ASUS 4-Way SLI bridge connector 1 x ASUS 3-Way SLI bridge connector 1 x ASUS SLI bridge connector 2 in 1 Q-connector I/O Shield User's manual
Support DVD	Drivers ASUS Utilities ASUS Update Anti-virus software (OEM version)
Form Factor	ATX Form Factor, 12"x 9.6" (30.5cm x 24.4cm)